

Appendix I

Alignment of instant SEQ ID NO: 1 (nucleotides 1-780) with SEQ ID NO: 27 (plasmid pMG) of Perkins et al

>lc1135931 s10_27
Length=5627

Score = 1019 bits (642), Expect = 0.0
Identities = 642/642 (100%), Gaps = 0/642 (0%)
Strand=Plus/Plus

Query	109	CGTTACATAACTTACGGTAAATGCGCCGCTGGCTGACCGCCCAACGACCCCGCCCAATT	190
Sbjct	1248	CGTTACATAACTTACGGTAAATGCGCCGCTGGCTGACCGCCCAACGACCCCGCCCAATT	1307
Query	199	GACGTCATAATGACGATATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCA	258
Sbjct	1308	GACGTCATAATGACGATATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCA	1367
Query	259	ATGGGTGGAGTATTTACGGTAACTGCCACCTTGGCAGTACATCAAGTGTATCATATGCC	318
Sbjct	1368	ATGGGTGGAGTATTTACGGTAACTGCCACCTTGGGAGTACATCAAGTGTATCATATGCC	1427
Query	319	AAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCGCGCTGGCATTATGCCCAGTA	378
Sbjct	1428	AAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCGCGCTGGCATTATGCCCAGTA	1487
Query	379	CATGACCTTATGGGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTAC	438
Sbjct	1488	CATGACCTTATGGGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTAC	1547
Query	439	CATGGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCAGCGGG	498
Sbjct	1548	CATGGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCAGCGGG	1607
Query	499	ATTTCCAAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACG	558
Sbjct	1608	ATTTCCAAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACG	1667
Query	559	GGACTTTTCAAAATGTCTAACAACCTCGCCCCCAATTGACGCAAAATGGCGGTAGCGGTGT	618
Sbjct	1668	GGACTTTTCAAAATGTCTAACAACCTCGCCCCCAATTGACGCAAAATGGCGGTAGCGGTGT	1727
Query	619	ACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTASTGAAACCGTACAGATCGCTGGAGACG	678
Sbjct	1728	ACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTASTGAAACCGTACAGATCGCTGGAGACG	1787
Query	679	CCATCCACGCTGTTTTGGACCTCATAGAAGACACGGGACCGATTCAGCCTCCGCGGCGCG	738
Sbjct	1788	CCATCCACGCTGTTTTGGACCTCATAGAAGACACGGGACCGATTCAGCCTCCGCGGCGCG	1847
Query	739	GGAACGGTGCATTGGAAACGCGGATTCCCGGTGCCAAGAGTGA	780
Sbjct	1848	GGAACGGTGCATTGGAAACGCGGATTCCCGGTGCCAAGAGTGA	1889